



Blood Cancer Center Laboratory



DESIGN BY: MEGHAN REID

Leadership and Team

Director:

Dr. Eric Carlsen

Manager:

Margie Rodriguez-Lopez

Supervisor:

Jeff Delario

Admin:

Mary Smith, Director of Operations

Number of lab team members: 8

Focus and Volume

Lab Focus:

Hematology Oncology

Average yearly volume:

Approx. 125,000 tests

Overview

The Blood Cancer Center Laboratory is comprised of two sections: **bone marrow collections/processing, and the main laboratory.**

We serve the Blood Cancer Center (BCC), which are typically outpatients in the hematologic malignancy group and patients undergoing bone marrow, cord blood and/or peripheral blood stem cell transplant.

Our lab consists of the Lab Manager, Analytical Specialist, six techs in the main lab and two in the bone marrow lab. Our hours range from 6:30a to 5:30p seven days a week.

Location and Hours

- North Pavillion Bldg. 2400 Pratt Street, Room 3450
- 6:30AM-5:30PM



Jessica Tefel with the Sysmex XN3000 analyzers



Testing Performed

The main laboratory performs **chemistry, hematology and urinalysis** testing in which samples are stat and completed **within an hour**. In heme and UA perform auto heme, differentials, chemistry, chemical and microscopic urinalysis, urine qualitative HCG and specimen processing.

Chemistries are performed on a Beckman DxC 600. The chemistry test menu includes: basic metabolic panel (BMP), renal function panel (RFP), comprehensive metabolic panel (CMP), lactate dehydrogenase, magnesium, phosphorus, and uric acid.

The processing area answers the phone and monitors the incoming and outgoing samples by the walking courier.

The bone marrow collection techs have a dedicated workspace. They are responsible for scheduling bone marrows when a provider calls, assist the provider in collecting the sample, processing the samples, and performing a 500 count differential.

Processing of bone marrow samples involves preparing aspirate slides and staining. They perform an iron stain to assess iron within the bone marrow and Wright's stain to identify the cells present. A myeloperoxidase (MPO) stain can be performed if needed to assess blast lineage. They work closely alongside providers to assess a new diagnosis or to determine the effectiveness of treatment.



BCCL Staff (left to right): Jakki Brown, Jessica Tefel, Jeff Delario, Paul Barnette, Erica Ranosa, and Macy Cimafranca.

Analyzers

- In hematology, we have two Sysmex XN3000 analyzers with an automated slide stainer (SP-50) and digital cell imaging unit to perform manual differentials and smear reviews.
- Urinalysis is performed on the Clinitek Advantus.

New in the Lab

Everything! With the lab move from the first floor to the third floor of North Pavillion in March of 2020, we have a new space, new furniture, new breakroom and new instrumentation, including Cellavision.

Fun Facts

- The original lab used to be a utility closet performing an average of 60,000 tests/year.
- We have a beautiful lab surrounded by windows.



Lab Week 2023 "Saved by the Bell" team bulletin board